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1743 . H34  
PATENT  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(005092.00029)

In re Application of:

David Strand et al.

Serial No.: 10/033,315

Filed: December 27, 2001

Title: Microfluidic Substrate Assembly and Method  
for Making Same

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Examiner: Alexander, Lyle

Art Unit: 1734

\*\*\*\*\*

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

TRANSMITTAL LETTER

In regard to the above-identified application, we are transmitting herewith the attached:

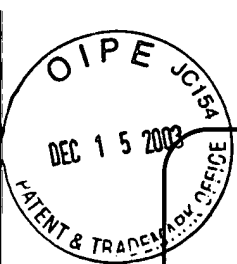
1. Supplemental Information Disclosure Statement;
2. USPTO Form 1449 (1 page) with nine (9) References;
3. Fee Transmittal for FY2004; and
3. Return Postcard

and hereby certify that this correspondence is being deposited on the date indicated below with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Brigid Laffey

Date: December 12, 2003

Brigid Marie Laffey  
Signature of person mailing paper or fee  
Banner & Witcoff, Ltd.  
28 State Street, 28th Floor  
Boston, MA 02109  
Telephone: (617) 720-9600  
Facsimile: (617) 720-9601



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ ) 180.00

## Complete if Known

Application Number 10/033,315  
Filing Date December 27, 2001  
First Named Inventor David Strand  
Examiner Name Alexander, Lyle  
Art Unit 1743  
Attorney Docket No. 005092.00029

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money ☐ Other ☐ None  
Order

☒ Deposit Account:

Deposit  
Account  
Number

19-0733

Deposit  
Account  
Name

Banner & Witcoff, LTD.

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Credit any overpayments  
☐ Charge any additional fee(s) during the pendency of this application  
☐ Charge fee(s) indicated below, except for the filing fee  
to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1)

(\$ ) 0

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

			Extra Claims		Fee from below		Fee Paid
Total Claims		-	**	=	0	X	0
Independent Claims		-	**	=	0	X	0
Multiple Dependent					X		0

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$ ) 0

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	180.00
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$ ) 180.00

## SUBMITTED BY

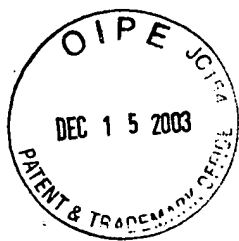
Complete (if applicable)

Name (Print/Type)	Peter D. McDermott	Registration No. (Attorney/Agent)	29,411	Telephone	(617) 720-9600
Signature		Date	12/12/2003		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(005092.00029)

**Applicant:** David Strand et al. **Paper No:**  
**Application No.:** 10/033,315 **Group Art Unit:** 1734  
**Filed:** December 27, 2001 **Examiner:** Alexander, Lyle  
**Title:** Microfluidic Substrate Assembly and Method for  
Making Same

\*\*\*\*\*

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. § 1.56 and 1.97, Applicants herewith submit the publications and/or patents shown on the attached form PTO-1449, for consideration by the Examiner in connection with the examination of the above-identified patent application.

It is respectfully requested that the documents shown on the attached form PTO-1449 be made of record in this application. Copies of these documents (CHECK ONE):

12/17/2003 ZJU HAR1 00000096 190733 10033315  
01 FC:1806 180.00 DA

**REMARKS**

In accordance with the provisions of 37 C.F.R. '1.97, this statement is being filed (CHECK ONE):

- (1) within three (3) months of the **Filing Date** or before the mailing date of the **First Office Action** on the merits; or
- ☒ (2) after the period defined in (1) but before the mailing date of a **Final Rejection** or **Notice of Allowance**, and the requisite Certification or fee under Rule 1.17(p), namely **\$180.00**, is included herein; or

- (3) after the mailing date of a **Final Rejection** or **Notice of Allowance** but before the payment of the **Issue Fee**, and the requisite Certification, petition, and petition fee are included herein.

It is respectfully requested that the documents shown on the attached form(s) PTO-1449 be made of record in this application. Copies of these documents (CHECK ONE):

☒ are enclosed herewith; or

— are in the file of related application Serial No. 00/000,000, filed \_\_\_\_\_, and are thus not being resubmitted herein.

Early examination and allowance of the present application are respectfully solicited.

#### FEE AUTHORIZATION

Should any fee associated with the submission of this paper not be attached hereto as a check, the Commissioner is authorized to charge the missing fee to our Deposit Account No. 19-0733. Any overpayments should be credited to said Deposit Account.

Respectfully submitted,

Date: 12 December 2004



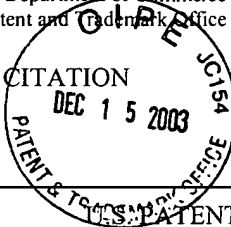
Peter D. McDermott  
Attorney for Applicant  
Reg. No. 29,411  
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**28 State Street, 28th Floor**  
**Boston, MA 02109**  
**Telephone: (617) 720-9600**  
**Facsimile: (617) 720-9601**

005092.00029

10/033,315

## INFORMATION DISCLOSURE CITATION

Sheet 1 of 1

Applicants: **David Strand et al.**Filing Date: **December 27, 2001**Group: **1743**

## U.S. PATENT DOCUMENTS

Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	AA	5,222,362	06/29/1993	Maus et al.			
	AB	5,263,323	11/23/1993	Maus et al.			
	AC	5,304,487	04/19/1994	Wilding et al.			
	AD	5,505,706	04/09/1996	Maus et al.			
	AE	5,738,658	04/14/1998	Maus et al.			
	AF	5,928,880	07/27/1999	Wilding et al.			
	AG	6,054,072	04/25/2000	Bentley et al.			

## FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation	
							YES	NO
	AH	WO 00/20157	13 April 2000	PCT				
	AI	WO 00/04978	3 February 2000	PCT				

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)


EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.\*\*Copies of references not provided at the time of this submission.